MODIS IOT Weekly Report Mission Operations Days: 2000/092 to 2000/098 March 31, 2000 20:00:00 GMT to April 7, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode MODIS is in Science Mode MODIS has no known Anomalies

Blackbody Calibration Electronics			20	A On; B Off A On; B Off	Nominal Nominal
Control Processor			23	A On; B Off	Nominal
Door: Nadir				Unlatched, open	Nominal
Space View				Unlatched, open	Nominal
Solar Diffuser				Unlatched, closed	Nominal
FDDI Formatter				A On; B off	Nominal
FIFO Memory				1 & 2 On; 3 & 4 Off	Nominal
Format Processor				A On; B off	Nominal
PC FPA				A On	Nominal
Power Supply: 1				On	Nominal
10,,01,	~ GPP-J	2		Off	Nominal
PV FPA	As:	VIS		A On	Nominal
		NIR		A On	Nominal
		SMIR		A On	Nominal
		LWIR		A On	Nominal
Radiative Cooler:					
Outgas Heaters			S	Off	Nominal
LWIR FPA Heater				On	Nominal
SMIR FPA Heater				Off	Nominal
Scan Assembly				A On; B off	Nominal
SDSM				Off	Nominal
SRCA				Off	Nominal
Surviva	al Heate	ers:	PS1	Enabled	Nominal
			PS2	Enabled	Nominal
Timing Generator				A On; B Off	Nominal
Flight Software				Rev BD	Nominal
Inhibit Ids Set				54 (SRCA)	Supsended SRCA activity
TMONs enabled				66,67	Nominal

This Week's Completed MODIS Activities:

Saturday, April 1, 2000 No Activities

Sunday, April 2, 2000 No Activities

Monday, April 3, 2000

094/03:18:07 ATC OA-15 SD/SDSM Open 094/04:57:00 ATC OA-16 SD/SDSM Screened 094/20:55 Real-time Clear inhibit ID #54 (SRCA)

Tuesday, April 4, 2000

095/15:00:00 ATC Blackbody to 315K

095/16:38:00 Real-time Set Blackbody duty cycle to 100%

095/22:00:00 ATC Blackbody to 270K

095/22:04:00 Real-time Set Blackbody duty cycle to 33%

Wednesday, April 5, 2000

096/11:19:59 ATC OA-16 SD/SDSM Screened 096/13:51:20 ATC OA-23 SRCA Full Spatial

096/19:00:00 ATC Blackbody to 290K

Thursday, April 6, 2000

097/15:00:00 ATC Blackbody to 315K

097/14:56:00 Real-time Set Blackbody duty cycle to 100%

097/19:36:00 Real-time Set inhibit ID #54 (SRCA)

097/22:00:00 ATC Blackbody to 270K

097/22:00:?? Real-time Set Blackbody duty cycle to 33%

Friday, April 7, 2000

098/17:43:51 ATC OA-16 SD/SDSM Screened

098/19:00:00 ATC Blackbody to 290K

This Week's Scheduled MODIS Activities Not Completed:

Monday, March 27, 2000

094/04:10:38 ATC OA-19 SRCA Full Radiometric (inhibited)

Friday, April 7, 2000

098/10:17:56 ATC OA-22 SRCA Full Spectral Part 1 (inhibited)

098/12:12:40 ATC OA-22 SRCA Full Spectral Part 2 (inhibited)

098/13:35:05 ATC OA-22 SRCA Full Spectral Part 3 (inhibited)

098/15:30:25 ATC OA-22 SRCA Full Spectral Part 4 (inhibited)

Upcoming MODIS Events:

Saturday, April 8, 2000

No Activities

Sunday, April 9, 2000

No Activities

Monday, April 10, 2000

101/03:23::29 ATC OA-15 SD/SDSM Open

101/05:02:22 ATC OA-16 SD/SDSM Screened

101/20:02:00 ATC Blackbody to 270K

Tuesday, April 11, 2000

102/14:00:00 ATC Blackbody to 315K

102/14:00:00 Real-time Set Blackbody duty cycle to 100%

101/22:00:00 ATC Blackbody to 270K

102/22:00:00 Real-time Set Blackbody duty cycle to 33%

Wednesday, April 12, 2000

103/?? ATC OA-16 SD/SDSM Screened

103/19:00 ATC Blackbody to 290K

103/19:48 Drag Make-up Maneuver

Thursday, April 13, 2000

104/14:55:33 IRU Cal Slew (+10 deg Roll, duration = 00:23:40)

104/16:34:26 IRU Cal Slew (-10 deg Roll, duration = 00:23:40)

104/18:13:19 IRU Cal Slew (+30 deg Yaw, duration = 00:33:40)

104/19:52:13 IRU Cal Slew (-30 deg Yaw, duration = 00:33:40)

Friday, April 14, 2000

105/?? ATC OA-16 SD/SDSM Screened

Maneuvers:

Wed, April 12, 2000 - Drag Make-up Burn

Planned GMT Time: 19:48

Thur, April 13, 2000 - Attitude Cal Slews

Planned GMT Times: 14:55, 16:34, 18:13, 19:52

Tue, April 25, 2000 - MODIS Yaw Maneuvers

Planned GMT Times: 14:06, 15:46, 17:26, 19:06, 20:45, 22:25

Wed, April 26, 2000 - MODIS Yaw Maneuvers

Planned GMT Times: 13:10, 14:50, 16:30, 18:10, 19:50, 21:29

Thur, April 27, 2000 - Inclination Maneuver

Planned GMT Time: 20:22 (backup time at 22:01)

Fri, April 28, 2000 - Post-inclination Drag Makeup Maneuver

Planned GMT Time: TBS

Tue, May 8, 2000 - Clear Deep Space Cal – Pending Science Team Approval

Planned GMT Time: 16:18

Tue, May 16, 2000 - Lunar Deep Space Cal

Planned GMT Manuver Time: 17:08

MODIS Anomalies:

None.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open.

MODIS Telemetry Trends:

Telemetry is nominal.

Non-MODIS Significant Events:

NASA conducted a "Security Scan" on the ops center on Thursday, Day 097. This brought everything except commanding capabilities to its knees. The planning and scheduling system is having a hard time recovering. Everyone associated with Terra Ops was affected. This caused many workarounds to be implemented for Thursday and Friday operations. The MODIS instrument was not in any danger during this event, although it has certainly kept us on our toes!

<u>Limited Life Item Status:</u>

SRCA 10W Lamp #1: 151.5 of 500 hours SRCA 10W Lamp #2: 127.5 of 500 hours SRCA 10W Lamp #3: 136.7 of 500 hours SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 545.8 of 4000 hours SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1188 of 3022 Movements Nadir Aperture Door: 530 of 1316 Movements Space View Door: 436 of 1316 Movements